MARKED UP ABSTRACT WITH AMENDMENTS SHOWN

A B S T R A C T

A method whereby packages of data, and particularly Java objects, are represented in serialized form on a storage medium before they are transmitted or stored. The packages of data are examined for non-application-dependent identifications and are altered whereby the non-application-dependent identifications are replaced by substitutes which require little storage space. In a further embodiment, the application-dependent identifications too are represented by special substitutes. [As a result of this method it is possible to represent complex data packages in a compact form without the packages having to be broken down into individual components and individually optimized.] The data package is represented [as a whole in a manner optimized with respect to storage space] so that it can be stored on storage media[, such as chip cards for example,] and can be restored unchanged at any desired time on any desired system. The restoration is performed by applying the algorithm in a similar way but in reverse, once again in a black box. [The data package does not need to be analyzed in a way specific to the application and context or to be broken down into individual items of data. The application of this method produces an approximate 30% greater compression of the representation of the data in a data package.]

NEW ABSTRACT WITH INCORPORATED AMENDMENTS

A B S T R A C T

A method whereby packages of data, and particularly Java objects, are represented in serialized form on a storage medium before they are transmitted or stored. The packages of data are examined for non-application-dependent identifications and are altered whereby the non-application-dependent identifications are replaced by substitutes which require little storage space. In a further embodiment, the application-dependent identifications too are represented by special substitutes. The data package is represented so that it can be stored on storage media and can be restored unchanged at any desired time on any desired system. The restoration is performed by applying the algorithm in a similar way but in reverse, once again in a black box.